BRUHAT BANGALORE MAHANAGARA PALIKE

DASARAHALLI ZONE

Name of Work :-Modified Estimate for Improvements & Asphalting to 9th cross & Other road in Bhuvaneshwari nagar in Bagalagunte in ward no.14 T.Dasarahalli Sub Division.

			Est. Cost Rs				45.00	Lakhs	
Sl	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300 - Earth work Excavation by manual means in **ordinary soil** involving an average horizantal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clouds complete as per specifications MORTH Chapter 3 (P.152/ I.19.1 PW, P & IWTD -SR 2013-14)								
			1	482	1.00	0.35	168.7	65.88	11114.00
	Basic Rate	61.00							
	Add Area Weightage 8%	4.88							
	Total	**65.88**							
2	KSRRB M400-1. **For Grading I Material** Construction of **granular sub-base** by providing close graded granular sub-base Material, mixing in a mechanical mix plant at OMC, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per Specifications. A. Plant Mix Method. **Page No. 167/ Item No. 20.4.1 PWD SR 2013-14**								
	#REF!		1	482	1.00	0.15	72.3	1060.56	76678.00
	Basic Rate	982.00							
	Area Weightage 8%	78.56							
	Total	**1060.56**							
3	KSRRB 500-2: **Cleaning** the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. Specification No. KRBS 500-1 MORTH Chapter 5 **Page No. 175/ Item No. 21.2/ PWD SR 2013-14**	**Sqm**							
			1	482	5.50		2651.0		
	Deduct		1	467	1.00		(-) 467.0		
	Basic Rate	2.40					= 2184.0	2.59	5657.00
	Area Weightage 8%	0.19							
	Total	**2.59**							

4	KSRRB M400-17: Providing, laying, spreading and compacting graded stone aggregate to **wet mix macadam** Specifications including premixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per Specifications.MORTH Specification No. 406 **Page No. 170/ Item No. 20.18/ PWD SR 2013-14**	**Cum**							
	0		1	482	1.00	0.20	96.4	1121.04	**108068.0**
	Basic Rate	1038.00							
	Area Weightage 8%	83.04							
	Total	**1121.04**							
5	KSRRB 500-7: Providing and applying **tack coat** on the prepared black topped surfaces at 5kg per 10 sqm, heating bitumen in boiler fitted with spray set (Excluding cleaning of road surface) including cost of all Materials, labour, HOM of machineries complete as per specifications. MORTH Chapter 5 **Page No. 176/ Item No. 21.7/ PWD SR 2013-14**	Sqm							
			Qty same as Item No 3				2184.00		
	Basic Rate	16.60					2184.00	17.93	**39159.0**
	Area Weightage 8%	1.33							
	Total	**17.93**							
6	KSRRB M500-11: Providing & Laying **Bituminous macadam** on prepared surface with crushed coarse aggregates as per design mix formula for base/binding course including loading of aggregates with F.E loader, hot mixing of stone aggregates and bitumen in hot mix plant 40 tonne capacity, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achive the desirde density 50/75 mm compacted thickness with 3.3% bitumen but excluding cost of primer/ tack coat with lead upto 1km including cost of all materials labour, HOM of Machineries, complete as per specification with 80/100 Grade Bitemen P-176/ I.N 21.11.1/ PWD SR 2013-14	Cum							
	For UGD trenches and Chamber Correction								
	#REF!		1	482	1.50	0.05	36.15		
	Basic Rate	6154.00					36.15	6646.32	240264.0
	Area Weightage 8%	492.32							
	Total	**6646.32**							

7	KSRRB M500-17: Providing and laying **semi dense bituminous concrete** with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 5% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH Specification clause No. 500.8 complete in all respects as per specifications. With 25-30mm compacted thickness with 5% bitumen 80/100 grade (gradeing II) **Page No. 178/ Item No. 21.20.1/ PWD SR 2013-14**								
			1	482	5.50	0.03	79.53		
	Basic Rate	8918.00					79.53	9631.44	765988.0
	Area Weightage 8%	713.44							
	Total	**9631.44**							
8	KSRRB 400-1.3: Carriage of Mixed Materials 10 Kms for Iteam of Sl No.1.C) Rs. 5.20 per cum/KM Page No 186/PWD SR 2013-14	**Cum**							
			Qty Vide Item No 6+7				115.68	56.16	6497.00
	Basic Rate	52.00							
	Area Weightage 8%	4.16							
	Total	**56.16**							
9	KSRRB 300 - Earth work Excavation by manual means in **hard soil** involving an average horizantal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clouds complete as per specifications MORTH Chapter 3 (P.152/ I.19.2 PW, P & IWTD -SR 2013-14)	Cum							
	Deck		1	6.00	3.20	1.20	23.04		
	Approch Wall		2	5.00	1.95	1.00	19.50		
							42.54		
	Deduct for Opening (Vent)		1	6.00	1.20	1.20	8.64		
							33.90	90.72	3075.00
	Basic Rate	84.00							
	Add Area Weightage 8%	6.72							
	Total	**90.72**							
10	KSRRB 300 - Earth work Excavation by manual means in ordinary soil involving an average horizantal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clouds complete as per specifications MORTH Chapter 3 (P.152/ I.19.1 PW, P & IWTD -SR 2013-14)	Cum							
	Cross roads Drain- 2 sides disilting		2	350.00	0.50	0.30	105.00		
			1	482.00	0.50	0.30	72.30		
			1	100.00	0.50	0.30	15.00		
	Basic Rate	61.00					192.30	65.88	12669.0
	Add Area Weightage 8%	4.88							
	Total	**65.88**							

11	KSRB 4-1.3: Providing and laying in position **plain cement** concrete of mix M7.5 with OPC cement @180 kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (P.12/I.4.3) PWD - SR 2013-14)	Cum							
	For Deck		1	6.00	3.20	0.15	2.88		
	Approch Wall		2	5.00	1.95	0.15	2.93		
	9th cross Bhuvaneshwari nagar		2	350.00	0.45	0.10	31.50		
			2	350.00	0.20	0.10	14.00		
	cross road		1	100.00	0.45	0.10	4.50		
			2	100.00	0.20	0.10	4.00		
	Basic Rate	3973.00					59.81	4290.84	256614.0
	Add Area Weightage 8%	317.84							
	Total	**4290.84**							
12	KSRB 4-1.6: Providing and laying in position plain cement concrete of **mix M15 with OPC** cement @240 kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (P.12/I.4.6) PW, P & IWTD - SR 2013-14)	Cum							
	9th cross Bhuvaneshwari nagar		2	350.00	0.45	0.075	23.63		
			2	350.00	0.20	0.10	14.00		
	cross road		1	100.00	0.45	0.075	3.38		
			2	100.00	0.20	0.10	4.00		
			2	6.00	0.60	0.10	0.72		
			1	6.00	1.20	0.10	0.72		
			2x2	5.00	0.60	0.10	1.20		
			2	5.00	0.75	0.10	1.50		
	Basic Rate	4425.00					49.14	4779.00	234840.0
	Add Area Weightage 8%	354.00							
	Total	**4779.00**							
13	KSRB 5.2.3 Providing and constructing granite / trap / basalt **size stone masonry** in foundation in **cement mortar** 1:6, stone hammered dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 Page No. 25/ Item No. 5.6/ PWD SR 2013-14								
			2	6.00	0.90	0.60	6.48		
	Approches		2x2	5.00	0.60	0.45	5.40		
							11.88	3549.96	42174.0
	Basic Rate	3287.00							
	Add Area Weightage 8%	262.96							
	Total	**3549.96**							

14	KSRB 5.3-3 Providing and constructing granite / trap / basalt size **stone masonry in basement** with cement mortar 1:6, edges of stone chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 Page No. 26/ Item No. 5.9/ PWD SR 2013-14								
			2	6.00	0.75	0.60	5.40		
			2	6.00	0.60	0.60	4.32		
			2x2	5.00	0.60	0.75	9.00		
							18.72	4227.12	79132.00
	Basic Rate	3914.00							
	Add Area Weightage 8%	313.12							
	Total	4227.12							
15	KSRB 4.2.1 : Providing and laying in position **reinforced cement concrete of Design mix M 25 with OPC cement @ 340KG, with 20 mm** and down size graded granite metal, course aggrigates @0.70cum & fine aggrigates @ 0.47cum with super plastisiser @ 3 ltrs confirming to IS 9103-1999 reaffirmed- 2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation plinth and ground floor level for Roof slabs, staircase, retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, etc., including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS : 4.1, 4.6 **Page No. 13/ Item No. 4.10/ PWD SR 2013-14**								
	for deck slab		1	6.00	2.40	0.45	6.48		
	Approch Slab		2	6.00	2.50	$\frac{0.3+0.45}{2}$	9.23		
							15.71	5843.88	91778.0
	Basic Rate	5411.00	✓						
	Add Area Weightage 8%	432.88	✓						
	Total	5843.88	✓						
16	KSRB 4.9.2 : Providing **T.M.T steel** reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. for TMT Bars Fe 500 Specification No.KBS 4.6.3 (Page No.17, Item No. 4.46.2) 2013-14	Qtl							
		Qty Considered 100 Kg/cum of item					6.48	7450.92	48282.0
	Basic Rate	6899.00	✓						
	Add 8% A.W	551.92	✓						
	TOTAL	7450.92	✓						
17	**Removing B.S.Slab** of drain and stacking etc., complete Page No. 28/ Item No. 5.32/ PWD SR 2013-14	Sqm							

	9th cross Bhuvaneshwari nagar		2	350.00	0.90		630.00		
	Cross road		1	100.00	0.90		90.00		
							720.00		
		Consider 60% Qty					432.00	50.11	21648.00
	Basic Rate	46.40							
	Add Area Weightage 8%	3.71							
	Total	50.11							
18	**Refixing stone** slabs of drains and pointing in CM 1:3 etc complete Page No. 28/ Item No.5.33/ PWD SR 2013-14	**Sqm**							
		Qty Vide Iteam No 17					432.00		
	Basic Rate	64.85					432.00	70.04	30256.00
	Add Area Weightage 8%	5.19							
	Total	70.04							
19	Providing **Granite slabs** selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete 7.5 thick (P. 27 I. 5.31.1) Page No. 28/ Item No. 5.31/ PWD SR 2013-14	**Sqm**							
	9th cross Bhuvaneshwari nagar		Qty Vide Item No 15				720.00		
		Deduct Availabe Qty Vide Iteam No 16					432.00		
	Basic Rate	318.00					288.00	343.44	98911.00
	Area Weightage 8%	25.44							
	Total	343.44							
20	KSRB 5-14 : Providing and constructing precast **concrete solid blocks** with compressive strength not les than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size **40x20x20** cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. **Page No. 27/ Item No. 5.27/ PWD SR 2013-14**	Sqm							
	9th cross Bhuvaneshwari nagar		4	350.00	0.40		560.00		
			2	100.00	0.40		80.00		
	Basic Rate	856.00					640.00	924.48	591667.0
	Add Area Weightage 8%	68.48							
	Total	924.48							
21	Supplying and fixing **precast** rainforced concee slab 10cm thick including cost of reinforcement as per design and drawing material cost, transportation, hire charges of machinery, machine cutting the vertical face to get plain even surface stc., complete with all leads and lift conveyance charges, labour charges inclusive of cost of all materials.	Sqm							
			2	350.00	0.90		630.00		
			1	100.00	0.90		90.00		
	Data Rates Approved by CE DZ						720.00	1600.00	1152000.0
22	Providing and fixing Pre cast solid concrete **kerb stones** of size 450x200x400mm made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting etc., complete. (P.28/I.5.29.1) PW, P & IWTD - SR 2013-14)	No							
			1	100.00			100.00		
				Qty / 0.45			222.00	316.44	70250.00
	Basic Rate	293.00							
	Add Area Weightage 8%	23.44							
	Total	316.44							

23	Disposal of debris to the final place of disposal with all lead and lift and as direction by the engineer in charge of the work, lead 4 Km a) Basic rate for haulage of materials as per item No. 17.4/KSRRB : M100-4.1 ..... Rs. 2.00 Tonne/Km b) Average earth of work 1.28 Tonne/Km for Rs. 2.00/Km c) Add loading and unloading Item No. 17.1 KSRRB M 100-1 Rs. 62.20 (P.150 I.18.57/1 PWD SR 2013-14)								
	Qty vide Iteam No 01		Qty Vide Item No 1 & 10				361.00	72.71	26247.00
	basic rate (Rs.2.0x1.28x2kms)	5.12							
	Loading and Unloading chages	62.20							
		67.32							
	Area Weightage @ 8%	5.39							
	Total	**72.71**							
24	KRIDL Charges 10% + Labour cess 1% + Q C Charge 1% =12%						L.S		485000.0
25	Miscellaneous and UnforessenCharges						L.S		2032.00
								Total Rs	4500000.0
	(Rupees Forty Five Lakhs Only)								

CERTIFICATE:-

1 The Work spot has been inspected and the work is found to be necessary
2 The Estimate is prepared as per the PW,P & IWTD -SR-2013-14
3 The Provision made in estimate are adequate and essential.
4 This area comes under BBMP limits.

Assistant Engineer
Ward-14

Assistant Executive Engineer
T. Dasarahalli Sub-Division
B.B.M.P

Executive Engineer
Dasarahalli Division
B.B.M.P. Bangalore.

CE/DZ/TS/02/14-15
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ನಂ. ದಿನಾಂಕ : 19/05/2014
ರೂ. 4500000/- (ನಾಲ್ಕು ನಾಲ್ಕು ಲಕ್ಷ ಐದು ಸಾವಿರ ರೂಪಾಯಿ ಮಾತ್ರ)
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.
ತಾಂತ್ರಿಕ ಸಹಾಯಕರು
ಮುಖ್ಯ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ.
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.